

Claims.

1. A data storage device having a storage means for storing acquired data in a hierarchical structure, comprising:

an image pickup unit;

an extraction means for extracting a piece of code information from a piece of image data acquired by picking up an image by the image pickup unit; and

a name generation means for generating a folder name or a file name relating to the piece of image data based on the piece of code information extracted by the extraction means.

2. A data storage device having a storage means for storing acquired data in a hierarchical structure, comprising:

an image pickup unit;

a code recognition unit having a table in which pieces of code information is respectively corresponded to a plurality of pieces of image data;

an extraction means for extracting a piece of the code information, from the table, corresponding to a piece of the image data acquired by picking up an image by the image pickup unit; and

a name generation means for generating a folder name or a file name relating to the piece of the image data based on the piece of the code information extracted by the extraction means.

3. The data storage device according to claim 1 or 2, further

comprising a determination means for determining whether or not the piece of the code information is extracted by the extraction means, wherein when the determination means determines that the piece of the code information is not extracted by the extraction means, the name generation means generates the folder name or the file name relating to the piece of the image data based on predetermined information.

4. The data storage device according to claim 3, further comprising a report means for reporting a message that the piece of the code information is not extracted by the extraction means, when the determination means determines accordingly.

5. The data storage device according to any one of claims 1 to 4, further comprising:

a folder generation means for generating in the storage means a folder of the folder name generated by the name generation means; and

a name changing means for changing the folder name or the file name relating to data stored in the storage means, to the folder name or the file name generated by the name generation means.

6. The data storage device according to claim 5, further comprising a reception means for receiving a selection of a first or second processing, wherein when the reception means receives the

selection of the first processing, the folder generation means generates in the storage means the folder of the folder name generated by the name generation means, and when the reception means receives the selection of the second processing, the name changing means changes the folder name or the file name relating to the data stored in the storage means, to the folder name or the file name generated by the name generation means.

7. An information transmitter that transmits information to outside, comprising:

an image pickup unit;

a code acquisition means for acquiring a code from a piece of image data obtained by picking up an image by the image pickup unit;

an analyzing means for analyzing the code acquired by the code acquisition means and acquires a piece of code information; and

a transmission means for transmitting to outside the piece of code information acquired by the analyzing means.

8. The information transmitter according to claim 7, further comprising:

a display means for displaying the piece of code information acquired by the analyzing means; and

an instruction reception means for receiving an instruction whether or not the piece of code information displayed on

the display means is transmitted, wherein

the transmission means transmits the piece of code information when an instruction to transmit the piece of code information is received by the instruction reception means.

9. The information transmitter according to claim 7 or 8, further comprising an encoding means for encoding the piece of code information acquired by the analyzing means, wherein the transmission means sends the piece of code information encoded by the encoding means.

10. The information transmitter according to any one of claims 7 to 9, further comprising:

a plurality of analyzing means respectively corresponding to different codes; and

a selection means for selecting, based on the code acquired by the code acquisition means, an analyzing means to analyze the code from the plurality of analyzing means, wherein

the analyzing means selected by the selection means analyzes the code acquired by the code acquisition means.

11. The information transmitter according to claim 10, further comprising a storage means for storing the code acquired by the code acquisition means and the piece of code information acquired by analyzing the code by the analyzing means, for each

analyzing means selected by the selection means.

12. A data storage system, comprising:
the information transmitter according to any one of claims 7 to 11; and
a data storage device for storing data in a hierarchical structure, the data storage device comprising:
a reception means for receiving the piece of code information transmitted from the information transmitter; and
a name generation means for generating a folder name or a file name relating to the data, based on the piece of code information received by the reception means.

13. An information processing system, comprising:
the information transmitter according to any one of claims 7 to 11, and
an information processor for performing a predetermined processing based on the piece of code information transmitted from the information transmitter.